BBA

Biomembranes

Vol. 1103, 1992

Cumulative Contents

Information for Contributors *vii*

Regular Papers

Isolation of the membranes from secretory organelles (trichocysts) of *Paramecium tetraurelia*
R. Glas-Albrecht, V. Schlosser and H. Plattner (Germany) 1

The thermal behaviour of phosphatidylcholine-glycophorin monolayers in relation to monolayer and bilayer internal pressure
R.J. Davies and M.N. Jones (UK) 8

Probing the active site of the reconstituted aspartate/glutamate carrier from bovine heart mitochondria: carbodiimide-catalyzed acylation of a functional lysine residue
T. Dierks, R. Stappen, A. Salentin and R. Krämer (Germany) 13

Amphipathic interactions of cannabinoids with membranes. A comparison between Δ^8-THC and its O-methyl analog using differential scanning calorimetry, X-ray diffraction and solid state ^{2}H-NMR
D.-P. Yang, T. Mavromoustakos, K. Beshah and A. Makriyannis (USA) 25

Glycosylation of the rabbit intestinal brush border Na^+/glucose cotransporter
B.A. Hirayama and E.M. Wright (USA) 37

Cl^-/base exchange and cellular pH regulation in enterocytes isolated from chick small intestine
M.L. Calonge, M.T. Molina and A. Ilundáin (Spain) 45

Relationship of hepatic cholate transport to regulation of intracellular pH and potassium
C.M. Veith, T. Thalhammer, F.X. Felberbauer and J. Graf (Austria) 51

Interfacial ionization and partitioning of membrane-bound local anaesthetics
J. Miyazaki, K. Hideg and D. Marsh (Germany, Hungary) 62

Influence of stigmastanol and stigmastanyl-phosphorylcholine, two plasma cholesterol lowering substances, on synthetic phospholipid membranes. A ^{2}H- and ^{31}P-NMR study
R.G.K. Habiger, J.M. Cassal, H.J.M. Kempen and J. Seelig (Switzerland) 69

The ability and inability of ATP to stop aluminum from reducing the sodium efflux in unpoisoned barnacle muscle fibers
Y.-P. Huang and E.E. Bittar (USA) 77

Phosphatase activity and potassium transport in liposomes with Na^+,K^+-ATPase incorporated
G. Berberián and L. Beaugé (Argentina) 85

The role of surface charge and hydrophilic groups on liposome clearance *in vivo*
A. Gabizon and D. Papahadjopoulos (USA, Israel) 94

Ion dependence of cystine and lysine uptake by rat renal brush-border membrane vesicles
P.D. McNamara, C.T. Rea and S. Segal (USA) 101

Blockade of sodium channels by Bistramide A in voltage-clamped frog skeletal muscle fibres
M.-P. Sauviat, D. Gouiffes-Barbin, E. Ecault and J.-F. Verbist (France) 109

Low- and high-K_m transport of dinitrophenyl glutathione in inside out vesicles from human erythrocytes
T.P.M. Akerboom, G. Bartosz and H. Sies (Germany) 115

Platelet membrane phosphatidylinositol kinase activity. Triton X-100 effects provide evidence for intramicellar reaction
D. Boué and O.M. Viratelle (France) 120

Surface properties of rat pulmonary surfactant studied with the captive bubble method: adsorption, hysteresis, stability
S. Schürch, H. Bachofen, J. Goerke and F. Green (Canada, Switzerland, USA) 127

Proteinases inhibit H^+-ATPase and Na^+/H^+ exchange but not water transport in apical and endosomal membranes from rat proximal tubule
I. Sabolić, L.-B. Shi, D. Brown, D.A. Ausiello and A.S. Verkman (USA) 137

Liposomes as a model for the study of the mechanism of fish toxicity of sodium dodecyl sulfate in sea water
E. Kalmanzon, E. Zlotkin, R. Cohen and Y. Barenholz (Israel) 148

Effect of amphipathic peptides with different α-helical contents on liposome-fusion
S. Lee, R. Aoki, O. Oishi, H. Aoyagi and N. Yamasaki (Japan) 157

Parathyroid hormone stimulates ATP-dependent calcium pump activity by a different mode in proximal and distal tubules of the rat
Y. Tsukamoto, S. Saka and M. Saitoh (Japan) 163
Bilayer stabilization of phosphatidylethanolamine by *N*-biotinylphosphatidylethanolamine
S.E. Wright and L. Huang (USA) 172

Rapid Report

Isolation of plasma membrane exovesicles from BHK cells using merocyanine 540
D. Allan and P. Quinn (UK) 179

Regular Papers

Recognition of liposomes by cells: in vitro binding and endocytosis mediated by specific lipid headgroups and surface charge density
K.-D. Lee, K. Hong and D. Papahadjopoulos (USA) 185
Contribution of complement system on destabilization of liposomes composed of hydrogenated egg phosphatidylcholine in rat fresh plasma
K. Funato, R. Yoda and H. Kiwada (Japan) 198
Transport of L-glutamic acid in the fission yeast *Schizosaccharomyces pombe*
K. Rezková, J. Horák, H. Sychrová and A. Kotyk (CSFR) 205
High-affinity phlorizin binding in *Mytilus* gill
S.H. Wright, A.M. Pajor, D.A. Moon and T.M. Wunz (USA) 212
Binding proteins for linear renin-inhibiting peptides in basolateral plasma membranes of rat liver
K. Ziegler and U. Sänger (Germany) 219
Functional molecular mass of the ^{14}C-azidobenzamidotaurocholic acid binding proteins in hepatocellular bile acid transport systems
K. Ziegler and R.H. Elsner (Germany) 229
Enhancement of the uptake of 1-methyl-4-phenylpyridinium ion (MPP^+) in mitochondria by tetraphenylboron
T. Aiuchi, M. Syou, M. Matsunaga, H. Kinemuchi, K. Nakaya and Y. Nakamura (Japan) 233
Transport and metabolism of palmitate in the rat liver. Net flux and unidirectional fluxes across the cell membrane
O. Ferraresi-Filho, M.L. Ferraresi, J. Constantin, E.L. Ishii-Iwamoto, A.J. Schwab and A. Bracht (Brazil, Canada) 239
Excretion of glutamate from *Corynebacterium glutamicum* triggered by amine surfactants
F. Duperray, D. Jezequel, A. Ghazi, L. Letellier and E. Shechter (France) 250
The sucrose carrier of the plant plasmalemma. III. Partial purification and reconstitution of active sucrose transport in liposomes
Z.-S. Li, O. Gallet, C. Gaillard, R. Lemoine and S. Delrot (France) 259
Effects of fatty acid alpha-hydroxylation on glycosphingolipid properties in phosphatidylcholine bilayers
D. Singh, H.C. Jarrell, E. Florio, D.B. Fenske and C.W.M. Grant (Canada) 268
The effect of desferrioxamine and ferric ammonium citrate on the uptake of iron by the membrane iron-binding component of human melanoma cells
D.R. Richardson and E. Baker (Australia) 275
Immunological relatedness of the sarcoplasmic reticulum Ca^{2+}-ATPase and the Na^+,K^+-ATPase
E. Molnar, S. Varga, I. Jona, N.W. Seidler and A. Martonosi (USA) 281
The effects of cholesterol oxidation products in sickle and normal red blood cell membranes
O. Kucuk, L.J. Lis, T. Dey, R. Mata, M.P. Westerman, S. Yachnin, R. Szostek, D. Tracy, J.W. Kauffman, D.A. Gage and C.C. Sweeley (USA) 296
Phospholipid asymmetry during erythrocyte deformation: maintenance of the unit membrane
T. Sugihara, K. Sugihara and R.P. Hebbel (U.S.A.) 303
Formation of supported planar bilayers by fusion of vesicles to supported phospholipid monolayers
E. Kalb, S. Frey and L.K. Tamm (Switzerland, USA) 307
Homeoviscous adaptation under pressure: the pressure dependence of membrane order in brain myelin membranes of deep-sea fish
M.K. Behan, A.G. Macdonald, G.R. Jones and A.R. Cossins (UK) 317

Rapid Reports

The effect of aging and acetyl-L-carnitine on the activity of the phosphate carrier and on the phospholipid composition in rat heart mitochondria
G. Paradies, F.M. Ruggiero, M.N. Gadaleta and E. Quagliariello (Italy) 324
Both ankyrin and band 4.1 are required to restrict the rotational mobility of band 3 in the human erythrocyte membrane
K. Wyatt and R.J. Cherry (UK) 327
Oligosaccharide order in a membrane-incorporated complex glycosphingolipid
H. Jarrell, D. Singh and C.W.M. Grant (Canada) 331

Author Index 337